## CLAIMS:

(currently amended): Inertial exciter for an acoustic radiator, the exciter comprising:
a massive member a magnet assembly;

a coupler adapted for attachment to <u>a surface of</u> the acoustic radiator and adapted for relative movement with respect to the <u>massive member magnet assembly</u>;

a voice coil assembly attached to the coupler;

a motor for effecting said relative movement of the coupler and the massive member; and

a suspension attached to the coupler and the magnet assembly for supporting the massive member magnet assembly adjacent the voice coil assembly relative to the coupler;

wherein the suspension acts <u>lies substantially</u> in a plane generally passing through the centre of mass of the massive member <u>magnet assembly</u>, thereby reducing any moment acting on the suspension.

- 2. (canceled)
- 3. (canceled)
- 4. (currently amended): Inertial exciter according to elaim 3 claim 1, wherein the suspension is generally planar.
- 5. (original): Inertial exciter according to claim 4, wherein the suspension is a spider formed from a corrugated foil of metal.
- 6. (original): Inertial exciter according to claim 4, wherein the suspension is a spider formed of polymer.
- 7. (original): Inertial exciter according to claim 4, wherein the suspension is a spider formed of strengthened cloth.
- 8. (original): Inertial exciter according to claim 4, wherein the suspension is in the form of an arm type cantilever.
- 9. (original): Inertial exciter according to claim 4, wherein the suspension is co-moulded or moulded integrally with the coupler.

- 10. (original): Inertial exciter according to claim 8, further comprising a compliant member connected in mechanical series connection between a region of the coupler local to the voice coil assembly and regions of the coupler to which the suspension is attached.
- 11. (original): Inertial exciter according to claim 10, wherein the compliant member has a lower compliance than the compliance of the suspension.
- 12. (original): Inertial exciter according to claim 11, further comprising damping to control spurious resonances.
- 13. (original): Inertial exciter according to claim 4, wherein the magnet assembly comprises a magnet sandwiched between a magnet cup and a pole piece, the cup defining a magnet gap which is filled with retentive fluid of suitable viscosity to damp motion of the voice coil.
- 14. (original): Inertial exciter according to claim 4, wherein the suspension is attached to the coupler towards the periphery of the exciter to provide restoring forces to control residual unwanted asymmetric movement.
- 15. (original): Inertial exciter according to claim 1, wherein the suspension is generally planar.
- 16. (original): Inertial exciter according to claim 15, wherein the suspension is in the form of an arm type cantilever.
- 17. (currently amended): Inertial exciter according to claim 16, wherein the motor comprises a voice coil assembly, further comprising a compliant member connected in mechanical series connection between a region of the coupler local to the voice coil assembly and regions of the coupler to which the suspension is attached, the compliant member having a lower compliance than the compliance of the suspension.
- 18. (original): Inertial exciter according to claim 1, wherein the suspension is attached to the coupler towards the periphery of the exciter to provide restoring forces to control residual unwanted asymmetric movement.

- 19. (original): Inertial exciter assembly comprising an inertial exciter according to claim 1, a base plate for attachment to an acoustic radiator in a non-repeatedly engageable manner, and an exciter attached to said base plate in a repeatedly engageable manner.
- 20. (original): Inertial exciter assembly according to claim 19, wherein said exciter is engageable with said base plate via a connection.
- 21. (original): Inertial exciter assembly according to claim 20, wherein said connection is a threaded connection.
- 22. (original): Inertial exciter assembly according to claim 20, and including a locking device for locking said connection.
- 23. (original): Bending wave loudspeaker comprising an acoustic radiator and an inertial exciter according to claim 1, wherein said coupler is attached to the acoustic radiator.
- 24. (canceled)
- 25. (canceled)
- 26. (currently amended): Bending wave loudspeaker according to claim 25 claim 23, wherein the suspension is generally planar.
- 27. (previously presented): Bending wave loudspeaker according to claim 23, wherein said coupler comprises a base plate, and said exciter is an inertial exciter.
- 28. (original): Bending wave loudspeaker according to claim 27, wherein said exciter is engageable with said base plate via a releasable connection.
- 29. (original): Bending wave loudspeaker according to claim 28, wherein said releasable connection is a threaded connection.
- 30. (previously presented): Bending wave loudspeaker according to claim 29, further comprising a locking device for locking said threaded connection.

- 31. (currently amended): A loudspeaker exciter assembly for a bending wave loudspeaker, comprising:
- a base plate for attachment to configured to be mounted on the surface of a bending wave acoustic radiator in a non-repeatedly engageable manner; and

an exciter attached to said base plate in a repeatedly engageable manner.

- 32. (original): Loudspeaker exciter assembly according to claim 31, wherein said exciter is an inertial exciter.
- 33. (original): Loudspeaker exciter assembly according to claim 31 or claim 32, wherein said exciter is engageable with said base plate via a releasable connection.
- 34. (original): Loudspeaker exciter assembly according to claim 33, wherein said releasable connection is a threaded connection.
- 35. (original): Loudspeaker exciter assembly according to claim 34, further comprising a locking device for locking said threaded connection.
- 36. (original): Loudspeaker exciter assembly according to claim 33, further comprising a locking device for locking said releasable connection.
- 37. (original): Loudspeaker exciter assembly according to claim 31, further comprising adhesive for attaching the base plate to an acoustic radiator in a non-repeatedly engageable manner.
- 38. (currently amended): Bending wave loudspeaker comprising:
  - a bending wave acoustic radiator;
- a base plate for attachment to configured to be mounted on the surface of the acoustic radiator in a non-repeatedly engageable manner; and

an exciter attached to said base plate in a repeatedly engageable manner.

- 39. (original): Bending wave loudspeaker according to claim 38, wherein the base plate is integral with the acoustic radiator.
- 40. (original): Bending wave loudspeaker according to claim 38, wherein the base plate is adhesively bonded to the acoustic radiator.

- 41. (original): Loudspeaker exciter assembly according to claim 38, wherein said exciter is an inertial exciter.
- 42. (original): Loudspeaker exciter assembly according to claim 38 or claim 41, wherein said exciter is engageable with said base plate via a releasable connection.
- 43. (original): Loudspeaker exciter assembly according to claim 42, wherein said releasable connection is a threaded connection.
- 44. (original): Loudspeaker exciter assembly according to claim 43, further comprising a locking device for locking said threaded connection.
- 45. (original): Loudspeaker exciter assembly according to claim 42, further comprising a locking device for locking said releasable connection.